

# V&V Reference Report

## L2 ASCDS Version : 8.4.3.1

Observation 7001 - L2 Version 2  
Chandra X-Ray Center

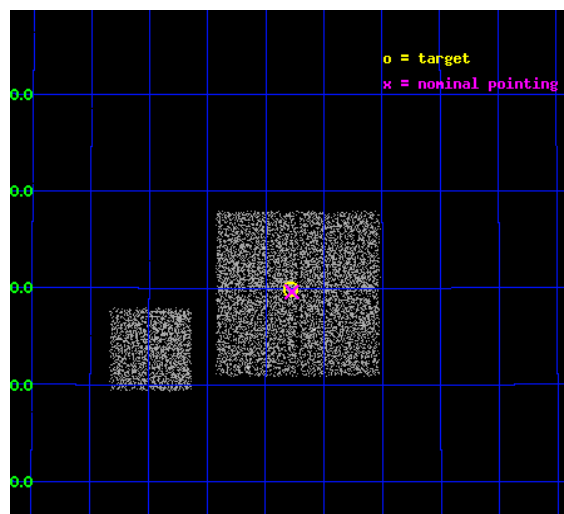
L2 Processing Date : Apr 7 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

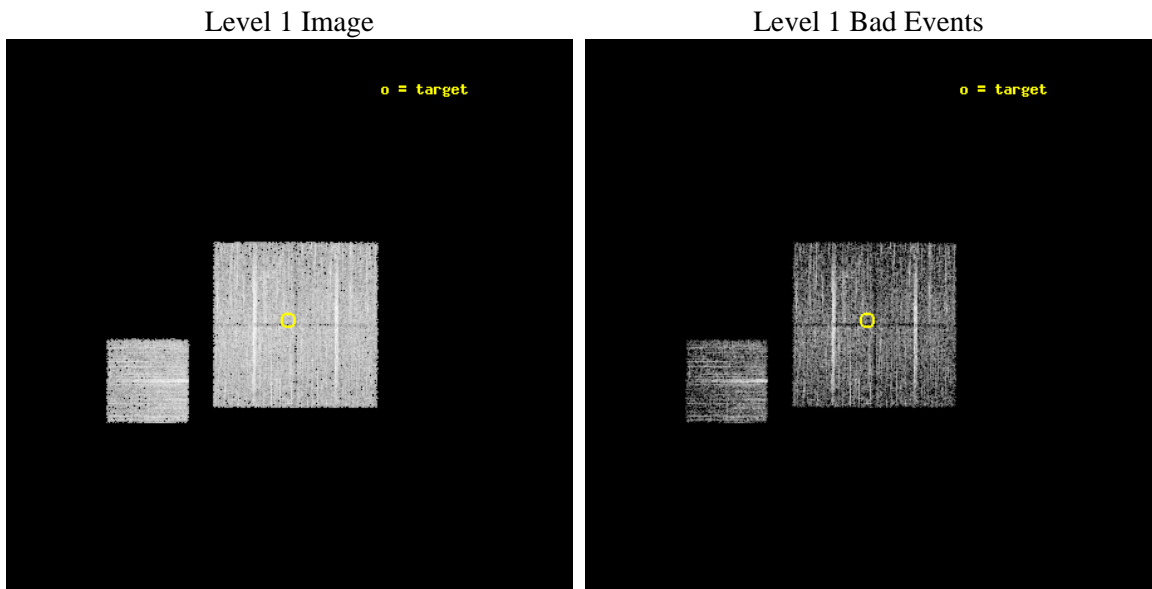
seq_num	900417	Sequence number
obs_id	7001	Observation id
title	Chandra Large Scale Survey of the NOAO Bootes Deep Field (A)	Propo
observer	Dr Stephen Murray	Principal investigator
object	Bootes2 23	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	216.94601	Observer's specified target RA [deg]
dec_targ	35.498039	Observer's specified target Dec [deg]
ra_nom	216.94376919519	Nominal RA [deg]
dec_nom	35.493747739154	Nominal Dec [deg]
roll_nom	270.20992018466	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4472.6800751686	Sum of GTIs [s]
livetime	4414.2412172474	Livetime [s]
ontime0	4469.415984869	Sum of GTIs [s]
ontime1	4475.7389156818	Sum of GTIs [s]
ontime2	4478.9209459424	Sum of GTIs [s]
ontime3	4472.6800751686	Sum of GTIs [s]
ontime6	4478.7978259325	Sum of GTIs [s]
l2events	12681	Number of level 2 events



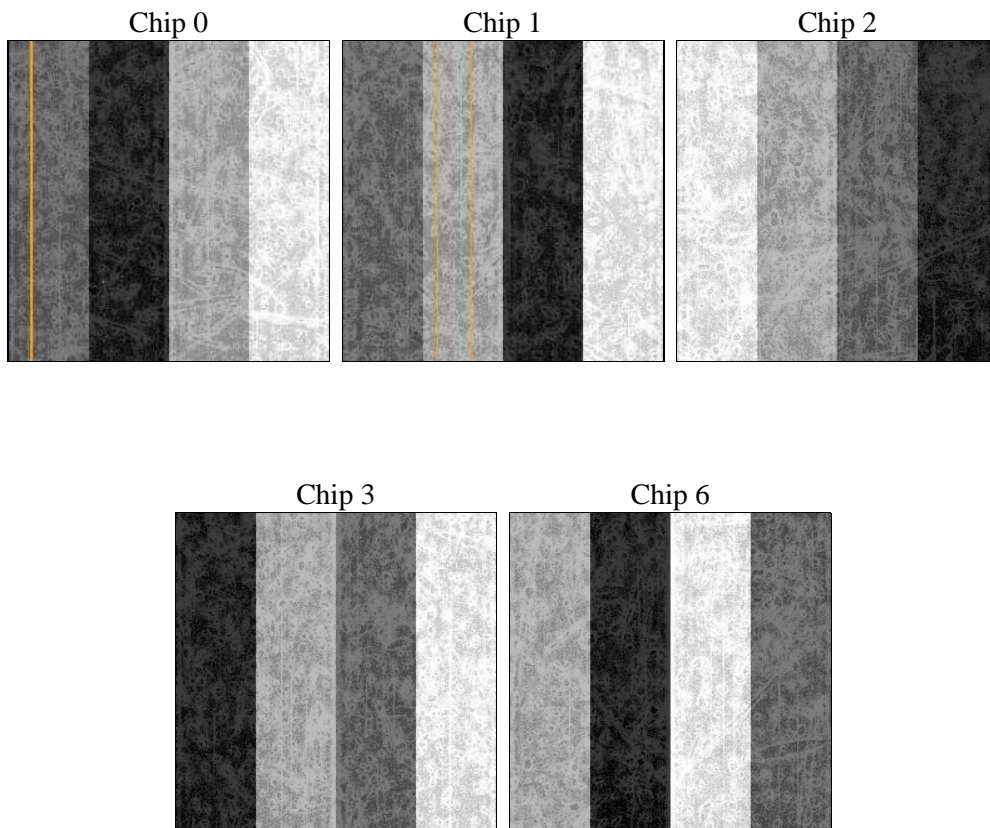
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4700.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	4472.6800751686	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	4469.415984869	Sum of GTIs [s]
date	2012-04-07T09:05:11	Date and time of file creation	ontime1	4475.7389156818	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	4478.9209459424	Sum of GTIs [s]
			ontime3	4472.6800751686	Sum of GTIs [s]
			ontime6	4478.7978259325	Sum of GTIs [s]
			l1events	162425	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	30309	31048	35920	33300	31848
rejected events	27146	27804	32833	30382	28641
rejected %	89%	89%	91%	91%	89%

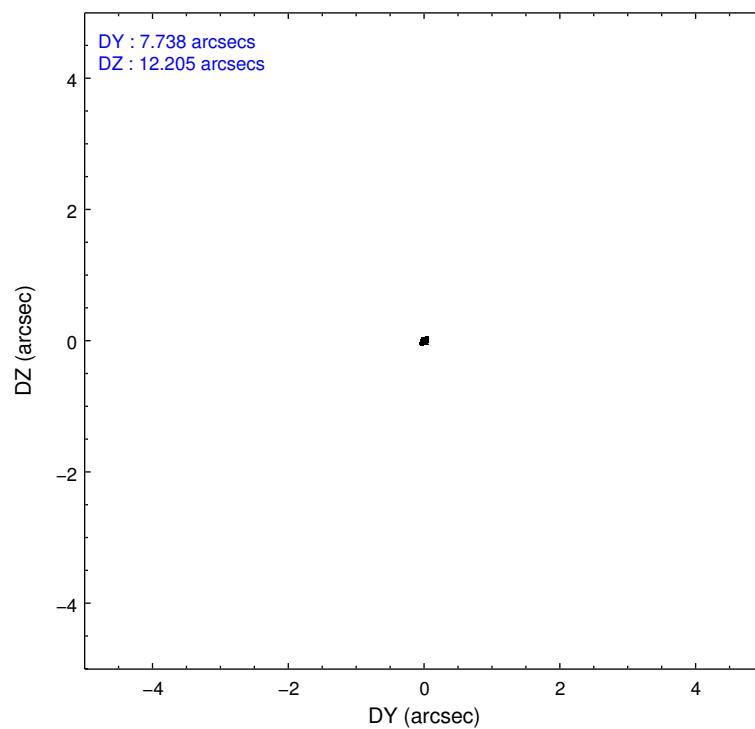
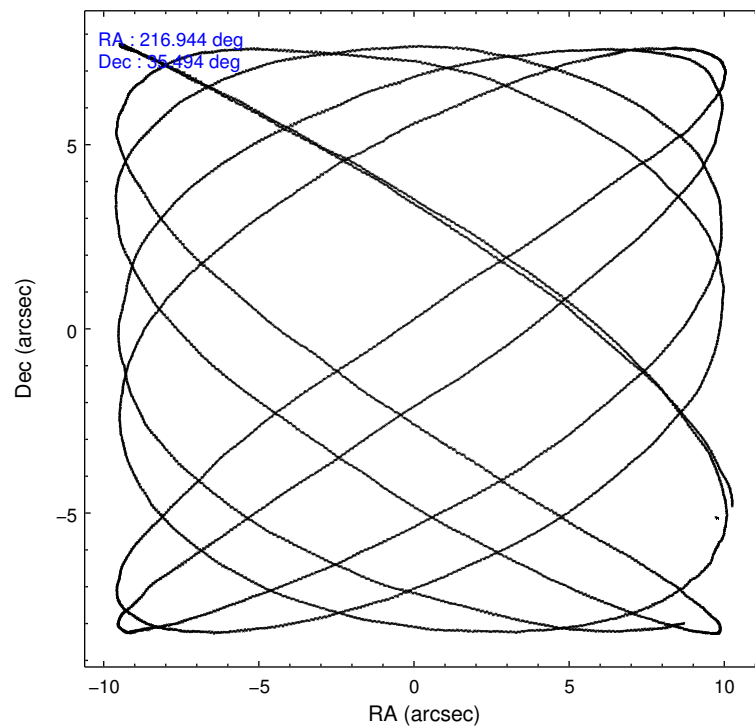
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1135	1129	1143	1047	1133
	3%	3%	3%	3%	3%
grade 1 events	21	19	27	21	13
	0%	0%	0%	0%	0%
grade 2 events	748	747	689	617	713
	2%	2%	1%	1%	2%
grade 3 events	326	402	359	351	390
	1%	1%	0%	1%	1%
grade 4 events	364	377	377	309	359
	1%	1%	1%	0%	1%
grade 5 events	950	1070	889	1098	1027
	3%	3%	2%	3%	3%
grade 6 events	594	592	523	594	614
	1%	1%	1%	1%	1%
grade 7 events	26171	26712	31913	29263	27599
	86%	86%	88%	87%	86%

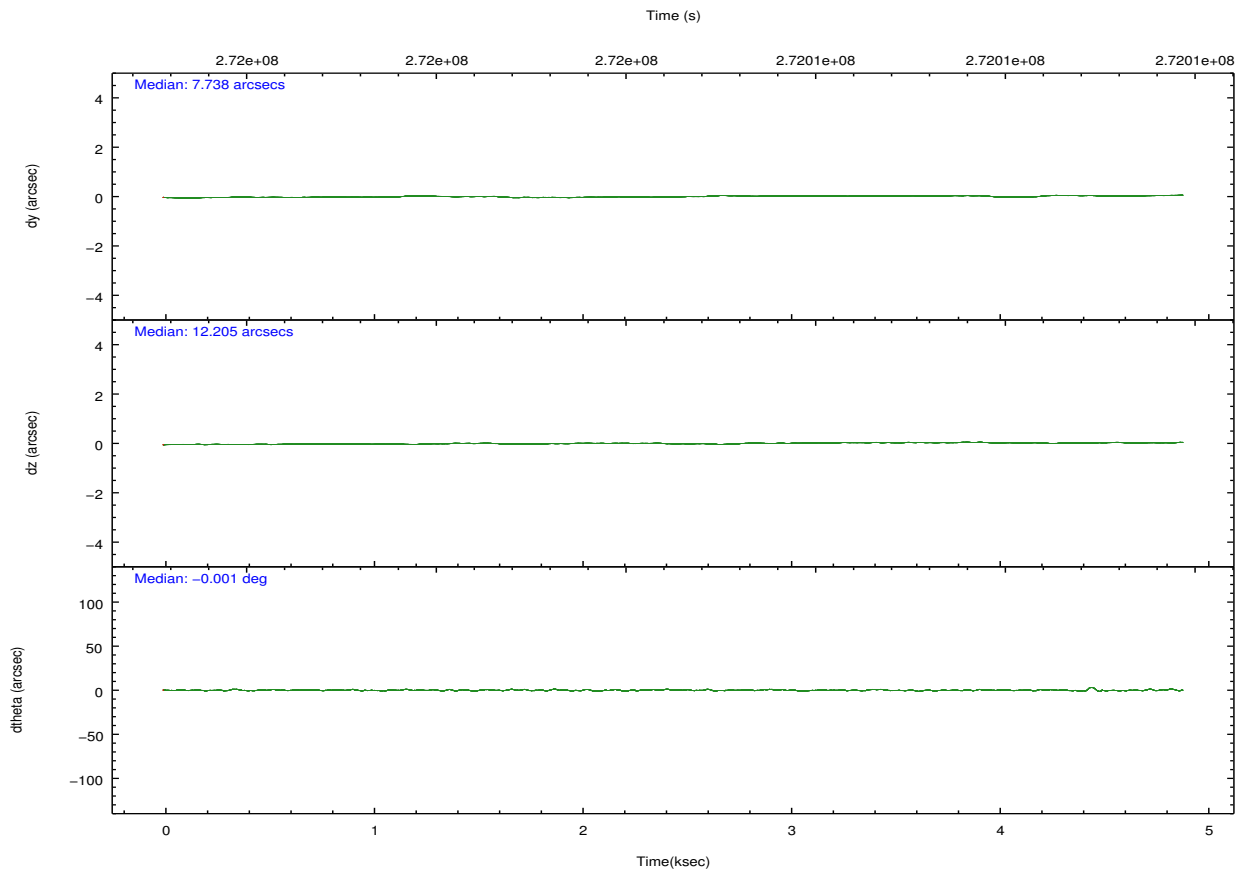
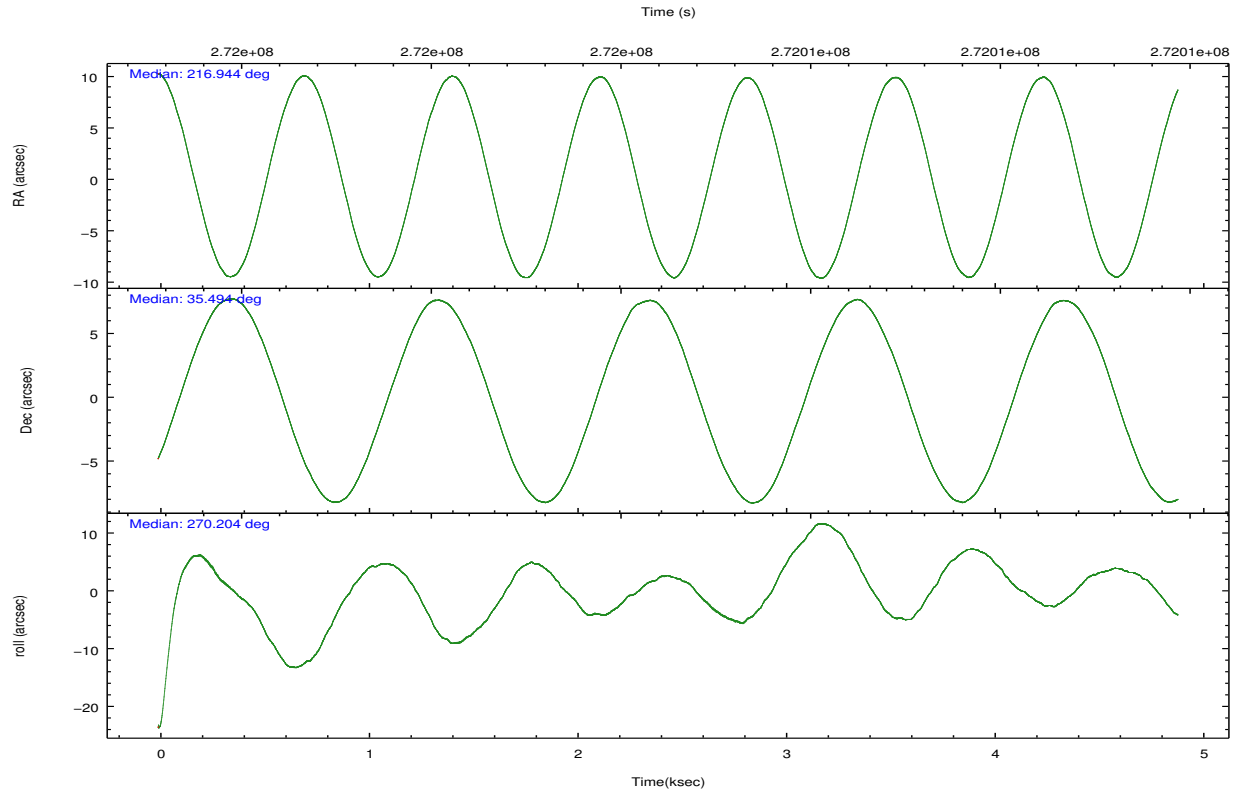


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	216.926747	216.9437691951919	Subarray requested	NONE	NONE
[deg] Pointing Dec	35.517335	35.49374773915418	Alternating exposures requested	N	N
[deg] Pointing Roll	270.011187	270.2099201846572	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	272002993.184000	272002617.31449			
Observation start date	2006-08-15T04:22:08	2006-08-15T04:16:57			
[s] Observation end time (MET)	272007693.184000	272007827.38974			
Observation end date	2006-08-15T05:40:28	2006-08-15T05:43:47			
Read mode	TIMED	TIMED			

## 2.3 Aspect



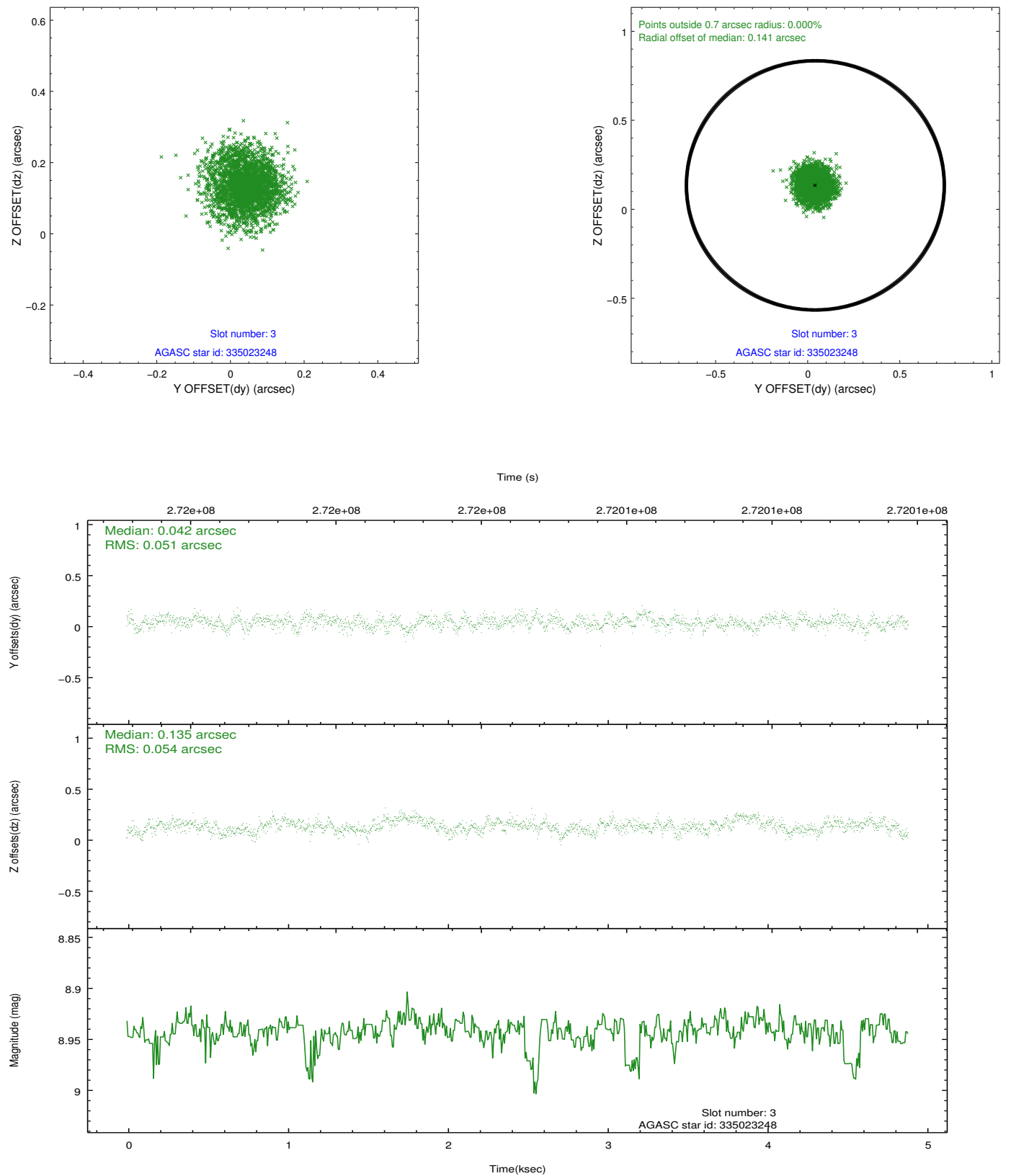


### Slot Statistics

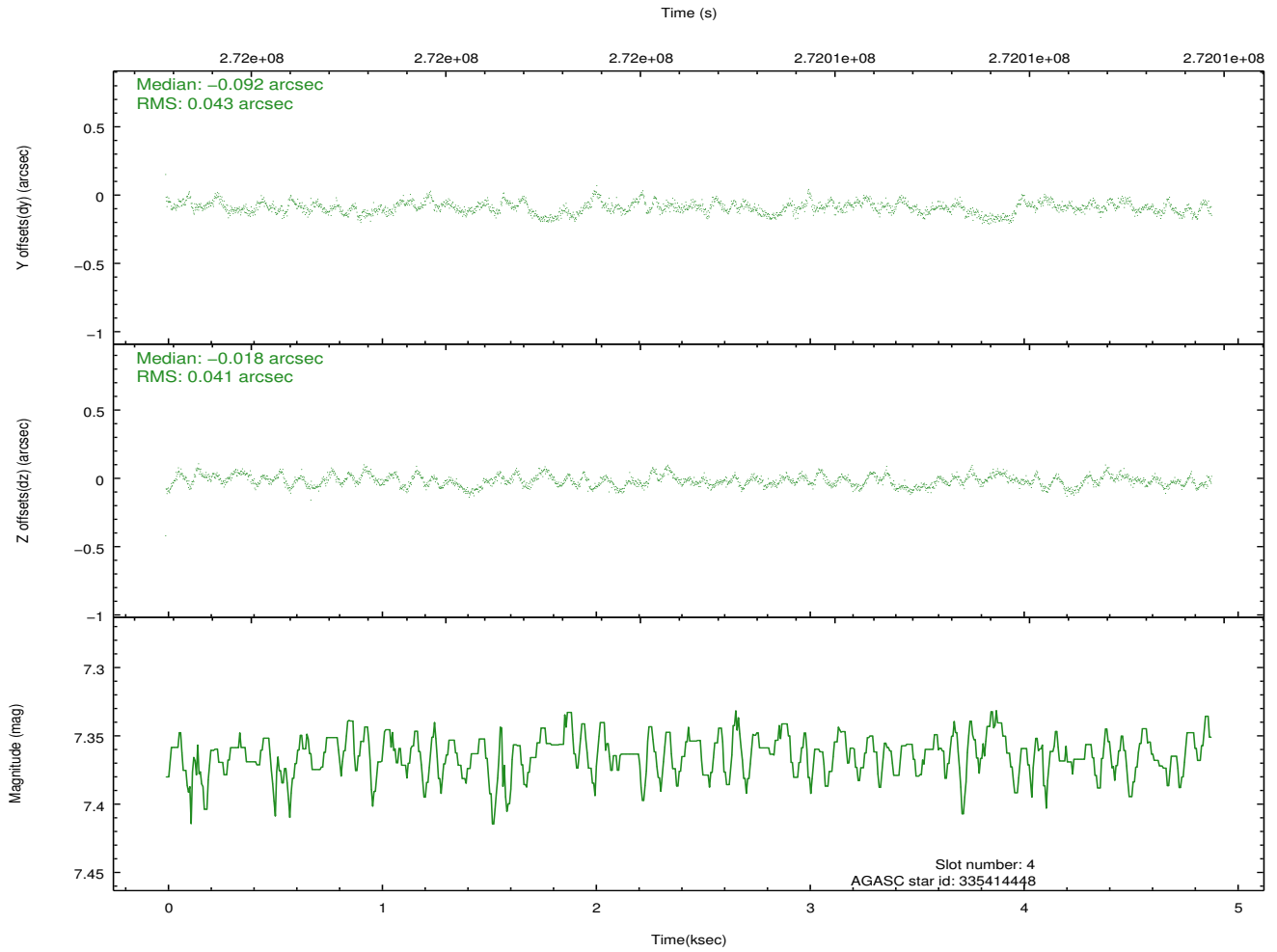
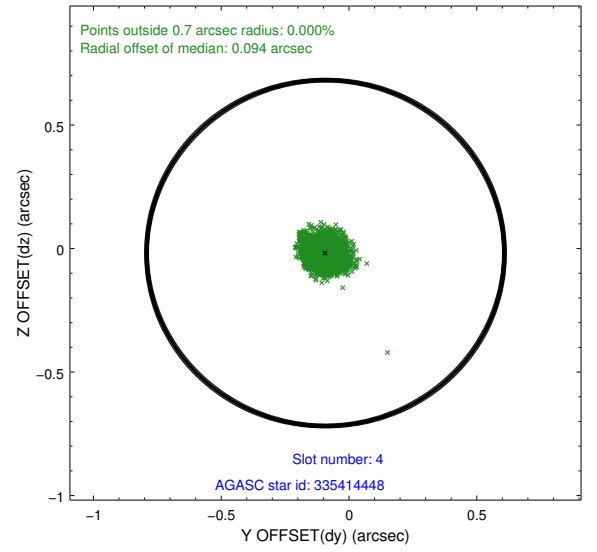
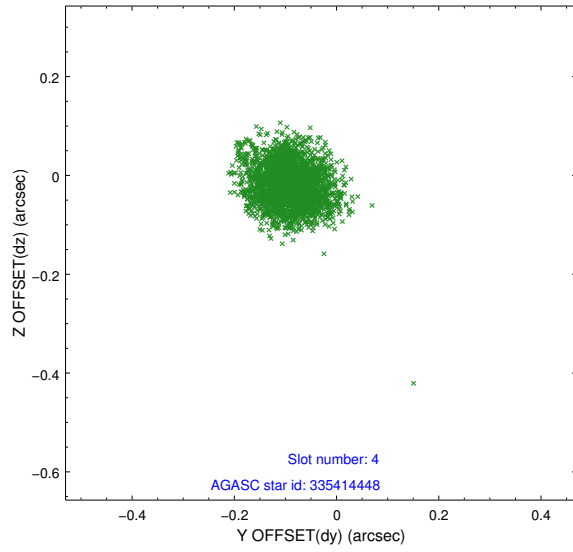
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	1193	0.054	-0.040	0.007	0.012	0.000000	0.000000	931.96	-835.78
1	FID	ACIS-I-5	7.23	1193	-0.179	0.063	0.006	0.011	0.000000	0.000000	-1815.66	1061.22
2	FID	ACIS-I-6	7.24	1193	0.034	0.047	0.007	0.011	0.000000	0.000000	396.17	1707.09
3	GUIDE	335023248	8.94	2382	0.042	0.135	0.080	0.126	217.634832	34.944512	2055.36	2089.65
4	GUIDE	335414448	7.36	2386	-0.092	-0.018	0.064	0.101	216.992261	35.577204	-213.86	193.23
5	GUIDE	335417968	9.39	2382	0.100	-0.043	0.100	0.166	217.358149	35.055285	1661.12	1271.34
6	GUIDE	335419120	9.65	2379	-0.102	-0.189	0.111	0.202	216.521861	35.833546	-1139.96	-1181.15
7	GUIDE	335422272	9.49	2382	0.056	0.103	0.113	0.175	217.586135	35.522660	-25.78	1931.81

## 2.4 Star Slots

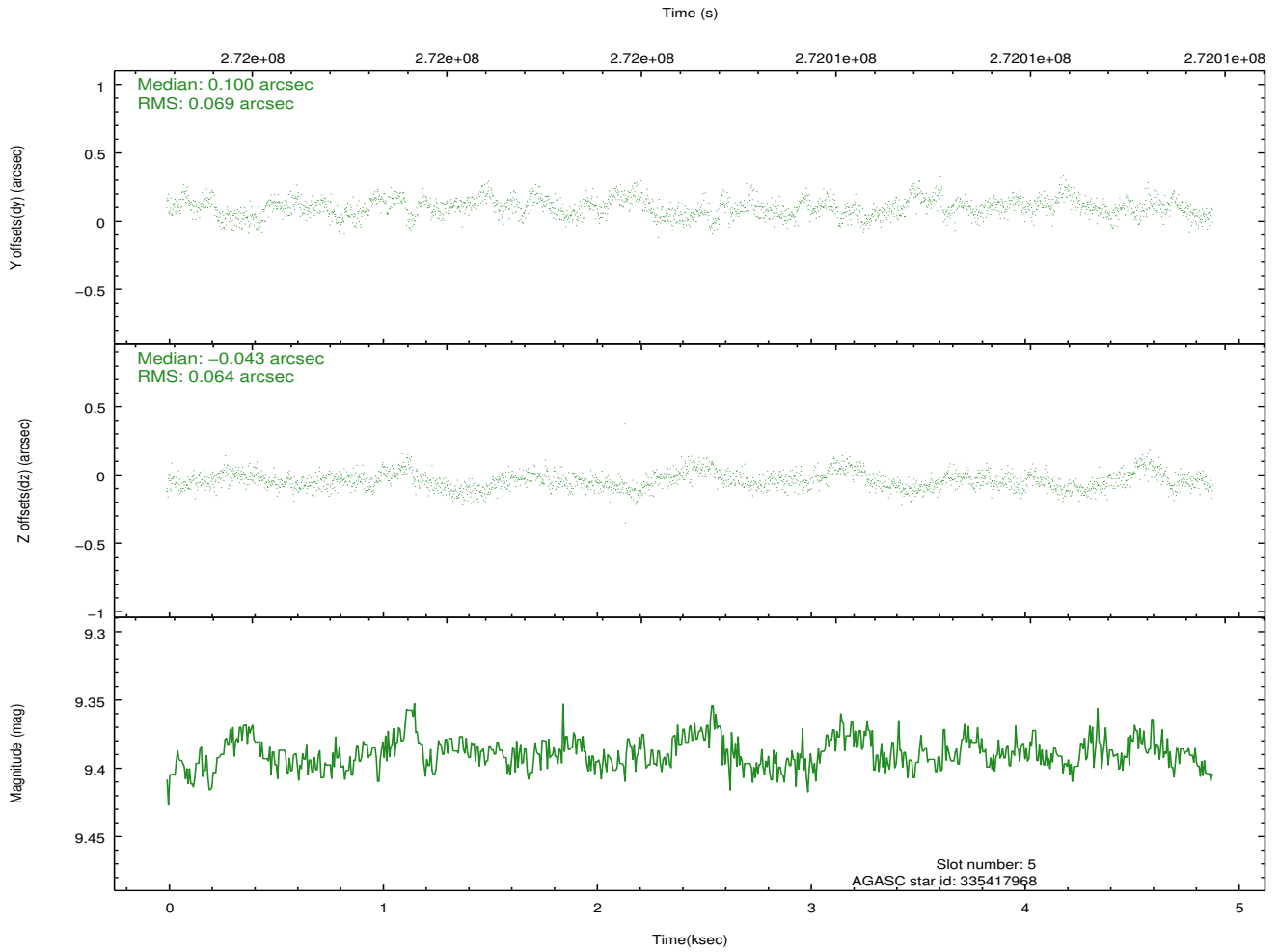
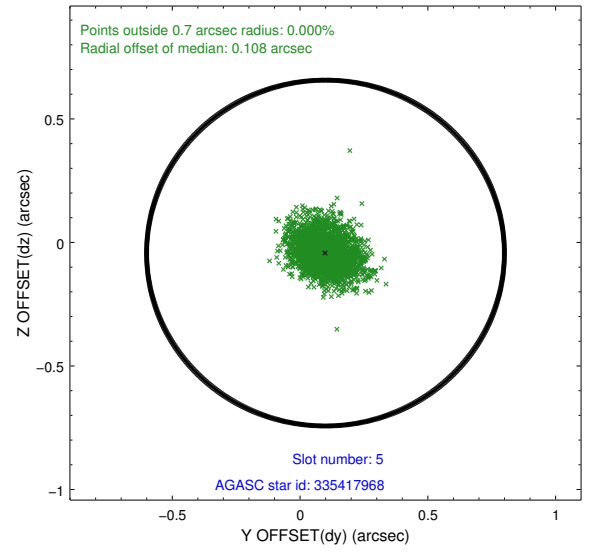
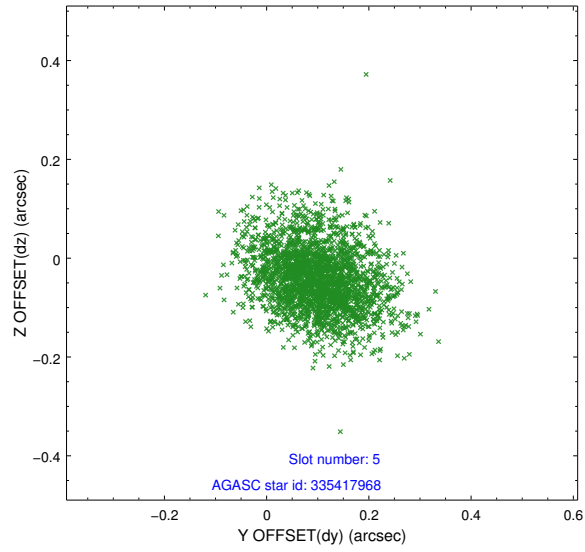
### 2.4.1 Slot 3



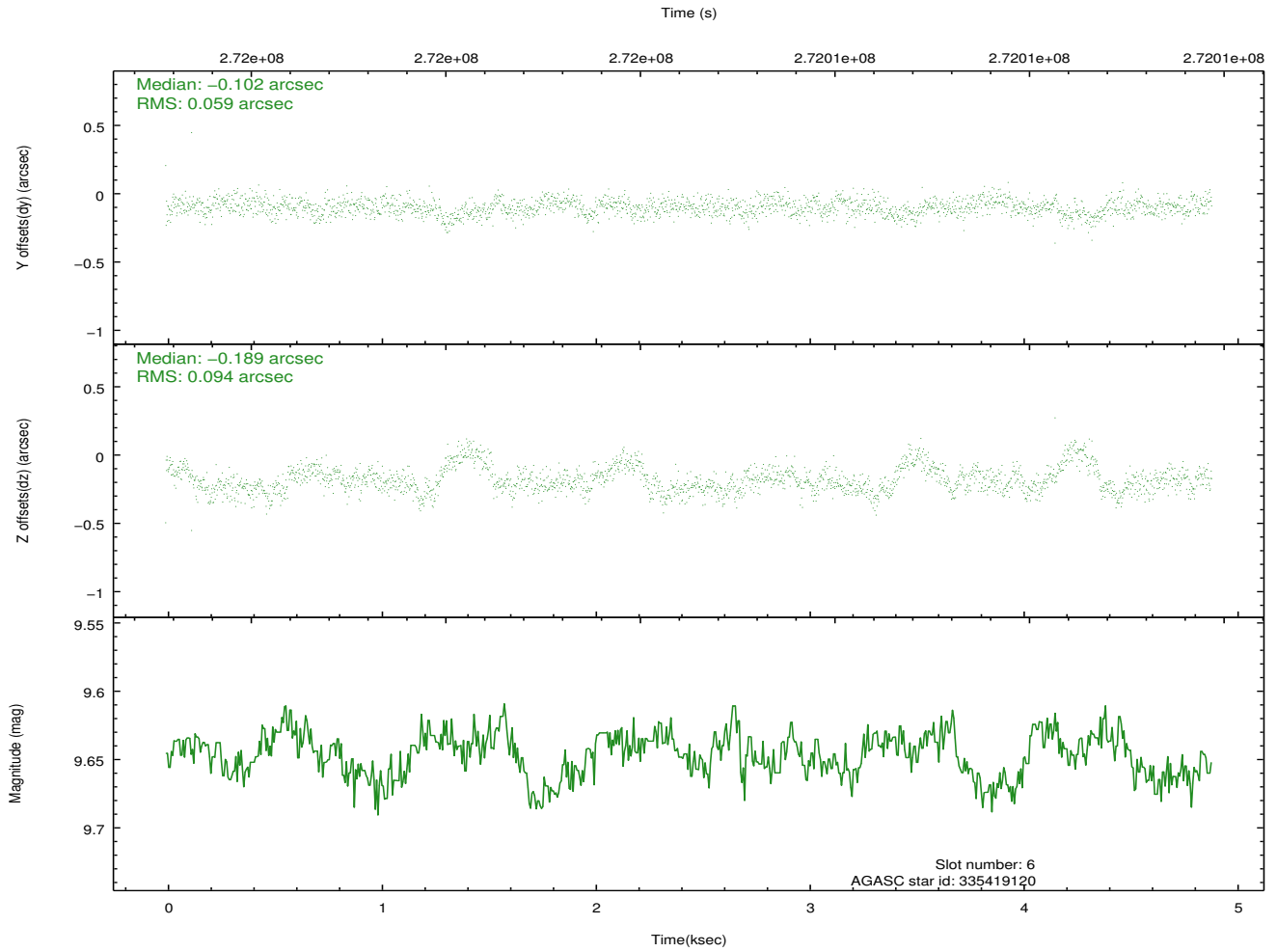
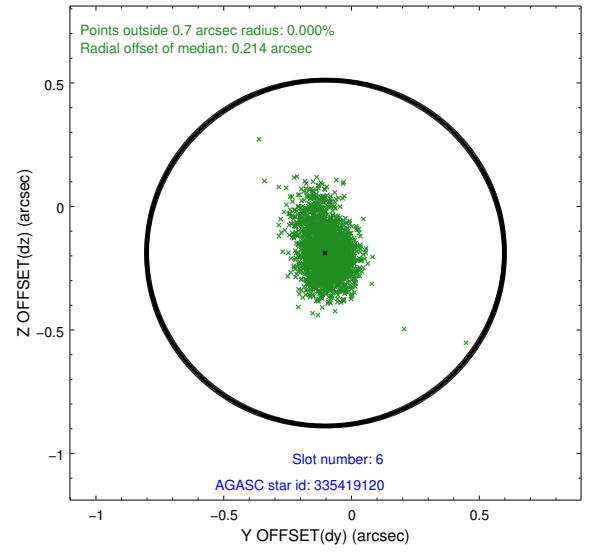
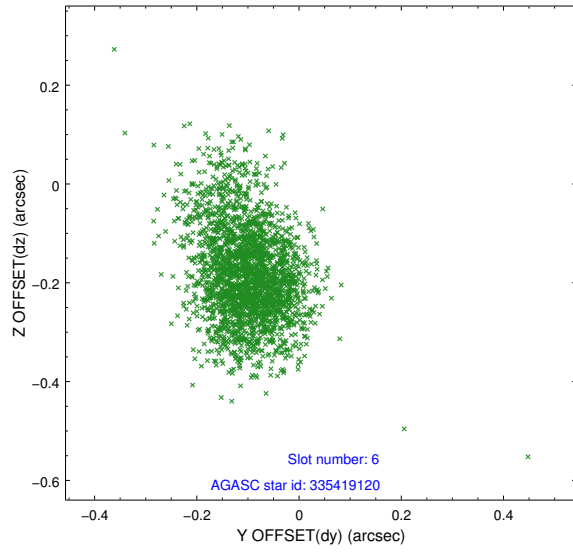
## 2.4.2 Slot 4



### 2.4.3 Slot 5

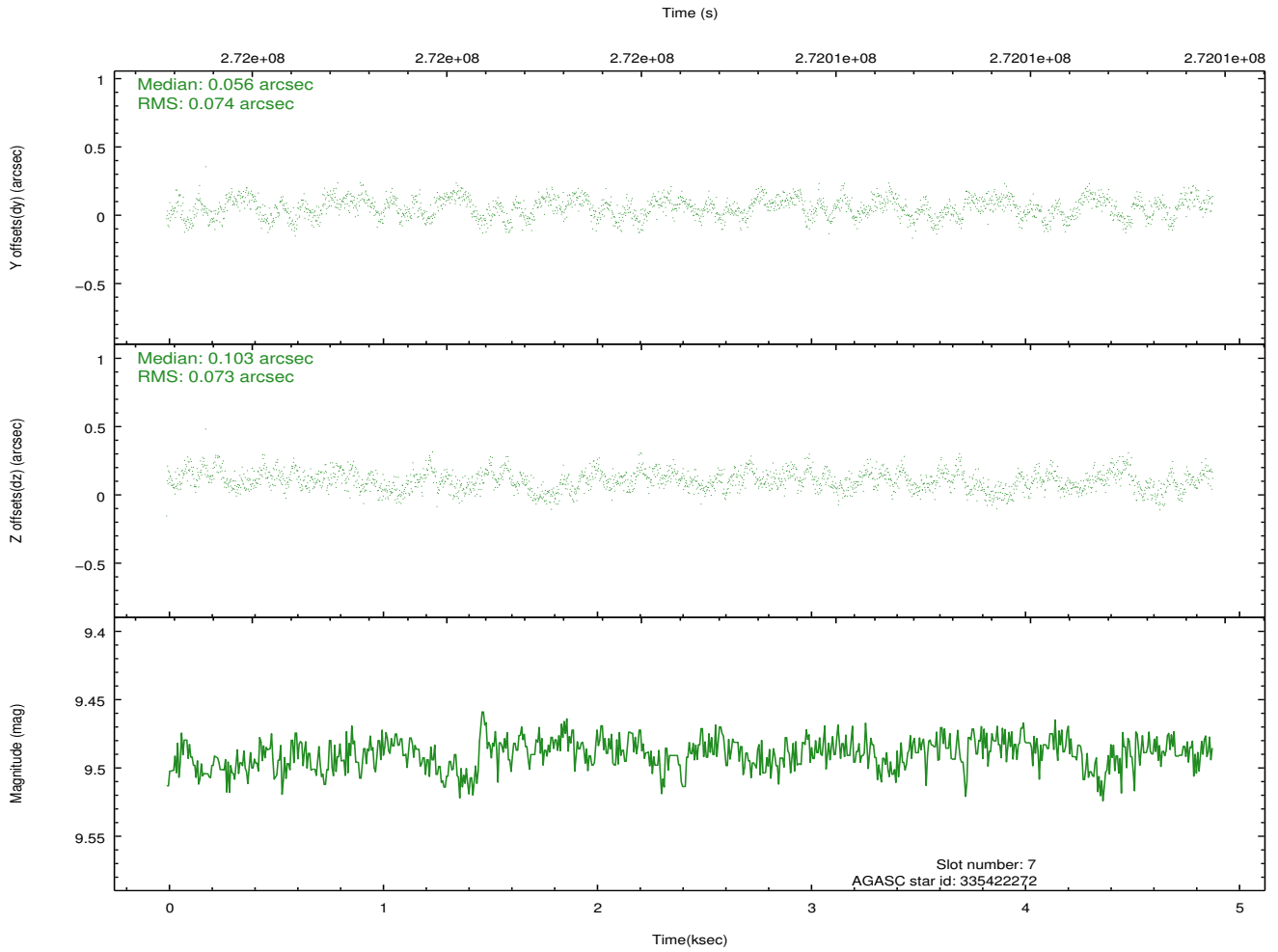
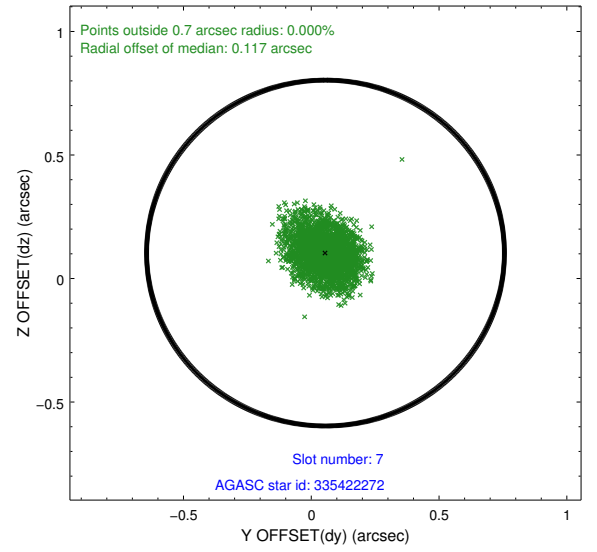
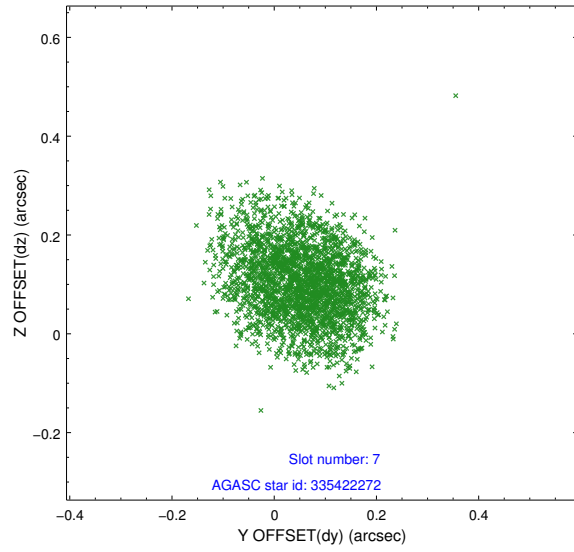


## 2.4.4 Slot 6



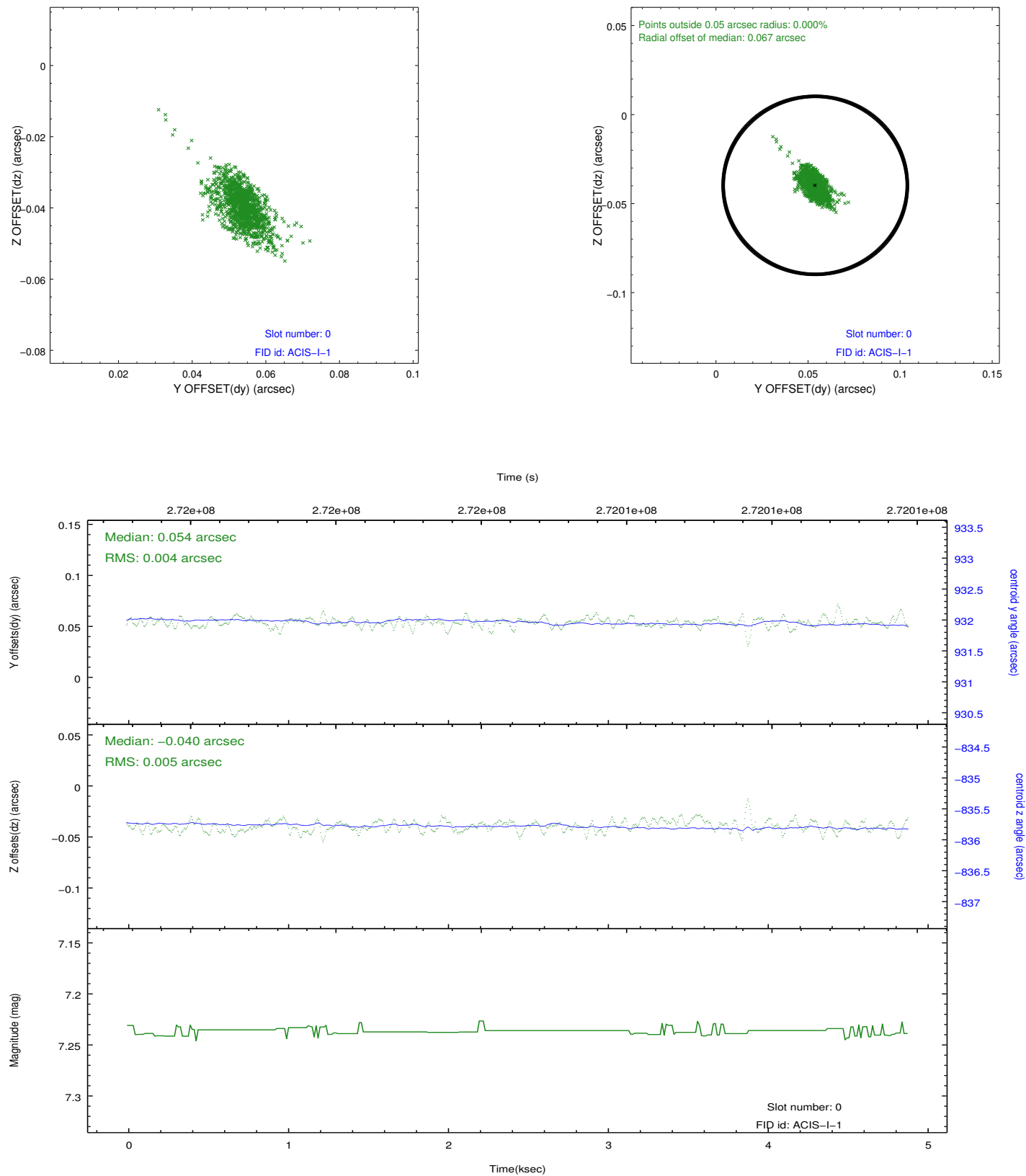


## 2.4.5 Slot 7

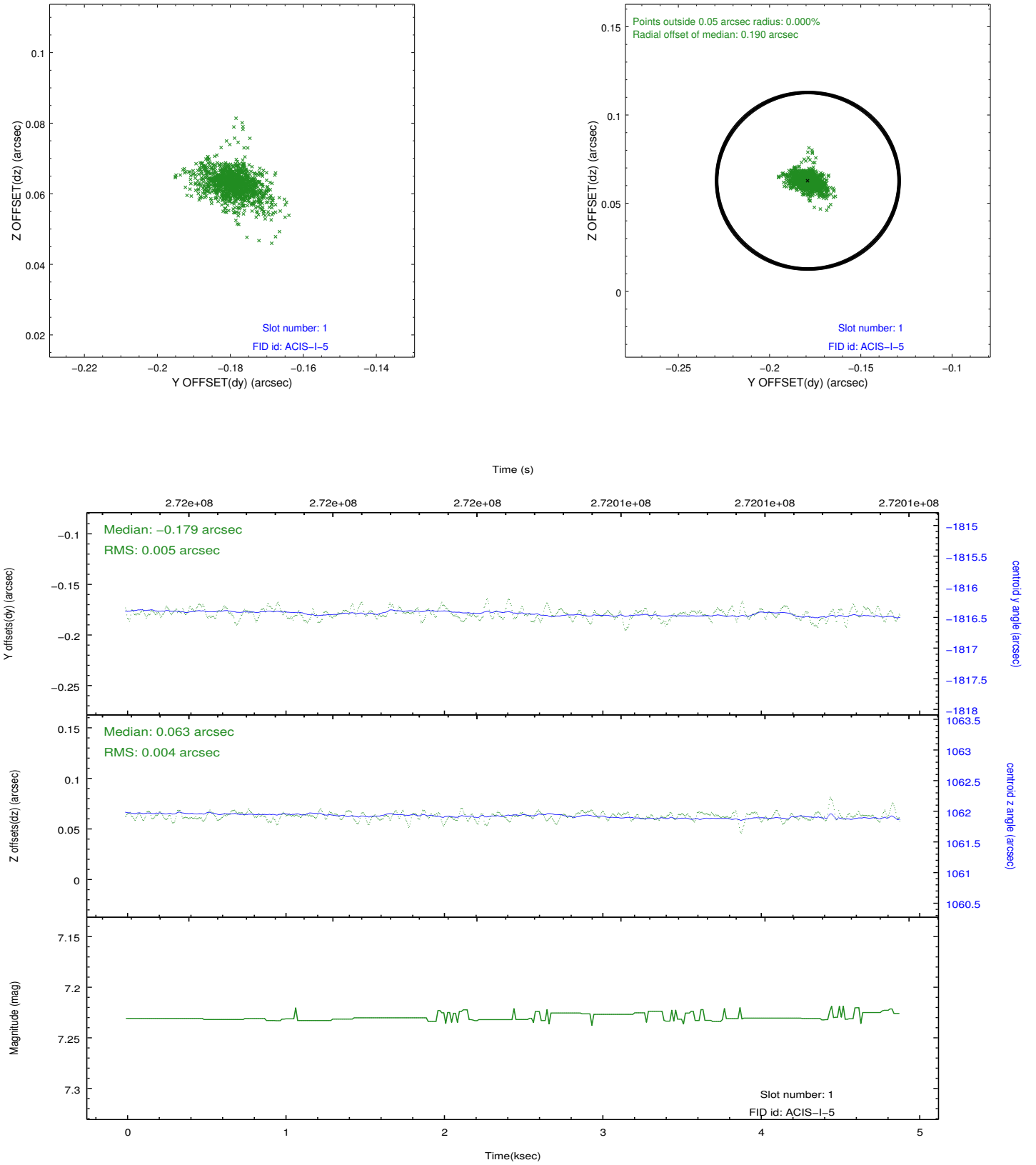


## 2.5 FID Slots

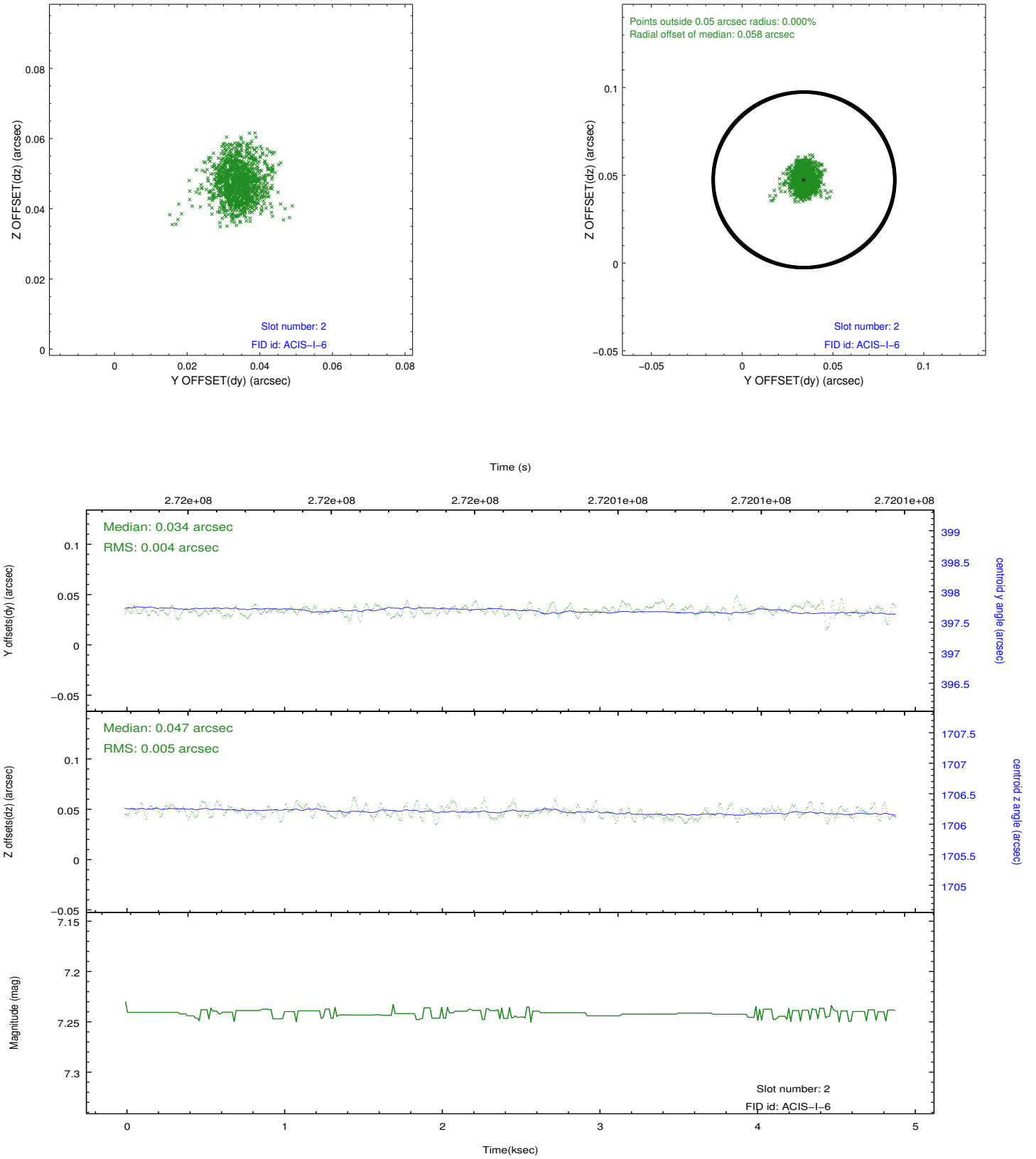
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.04.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.47321812

### A.2 Comments